

DANESS DEMO Results

Enabling our Energy Security through the Nuclear Fuel Cycle

The submitted manuscript has been created by the University of Chicago as Operator of Argonne National Laboratory ("Argonne") under Contract No. W-31-109-ENG-38 with the U.S. Department of Energy. The U.S. Government retains for itself, and others acting on its behalf, a paid-up, nonexclusive, irrevocable worldwide license in said article to reproduce, prepare derivative works, distribute copies to the public, and perform publicly and display publicly, by or on behalf of the Government.

Work supported by U.S. Department of Energy

Argonne National Laboratory

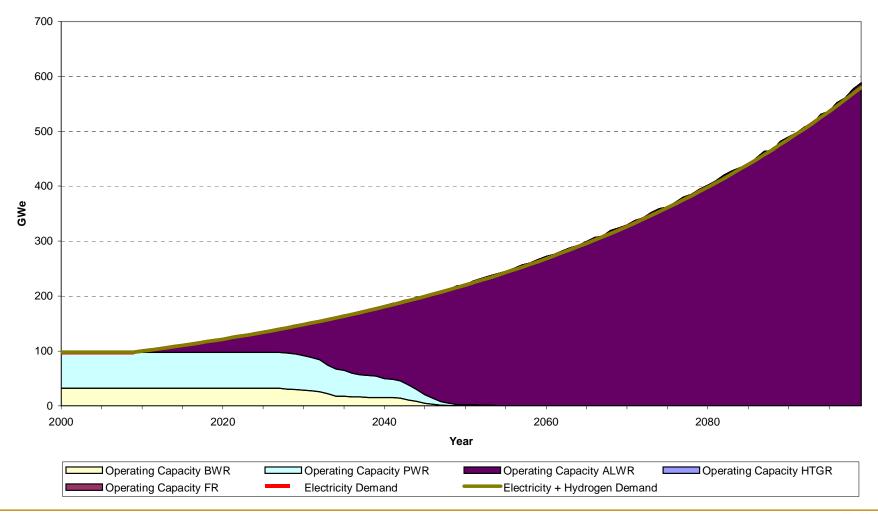


A U.S. Department of Energy Office of Science Laboratory Operated by The University of Chicago





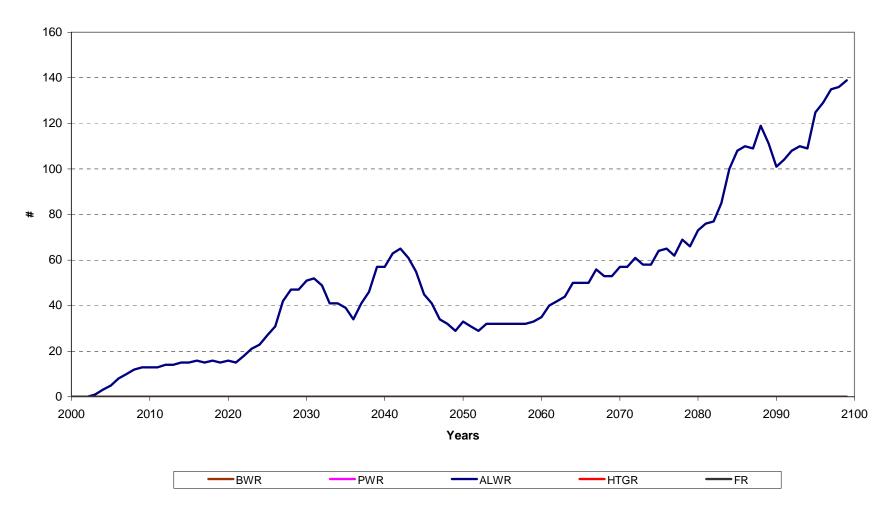
Reactor Capacity versus demanded Energy





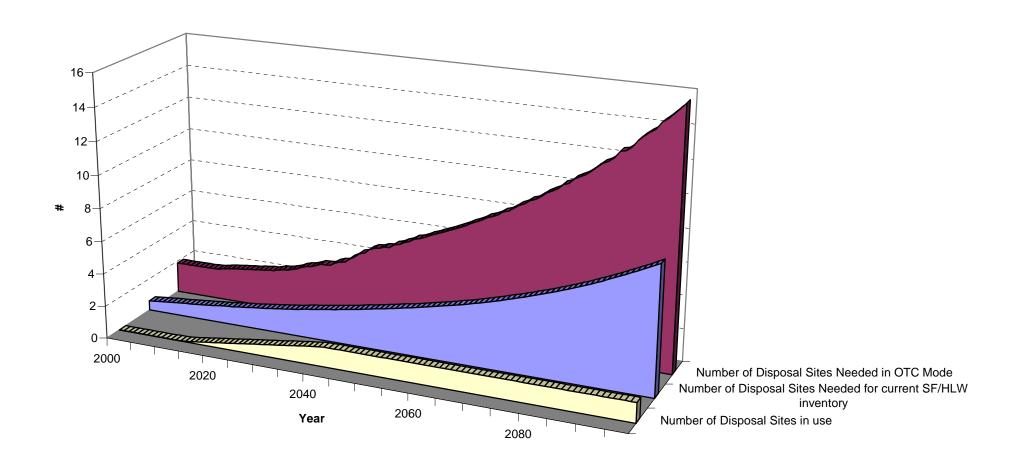


Number of Reactors under Licensing and Construction





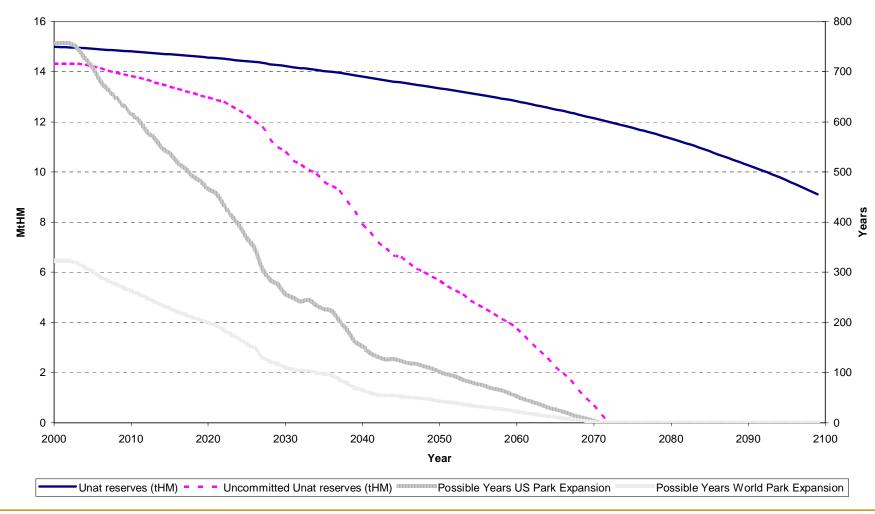
Spent Fuel and High Level Waste arising







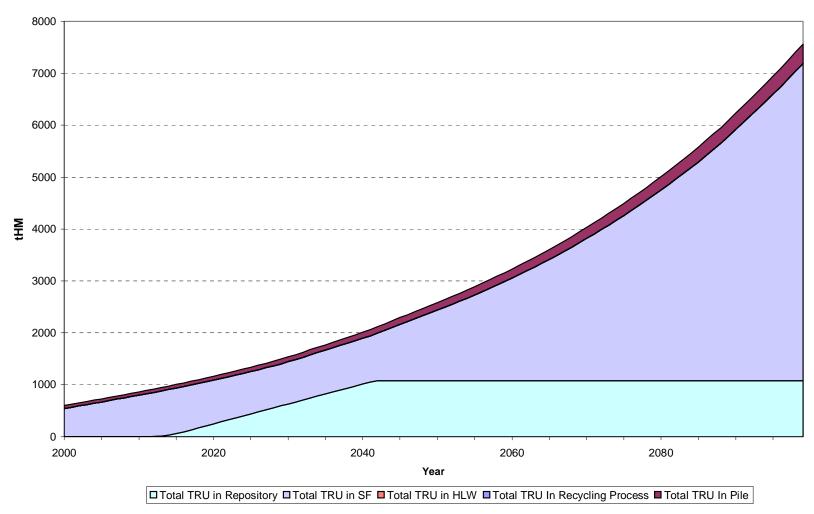
Natural Uranium Resources and Allocation







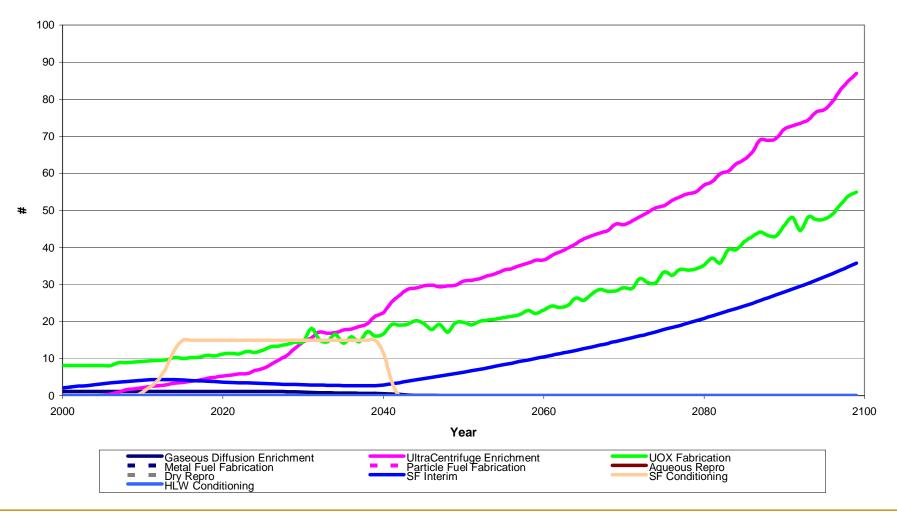
Transuranics In-Pile and Out-of-Pile







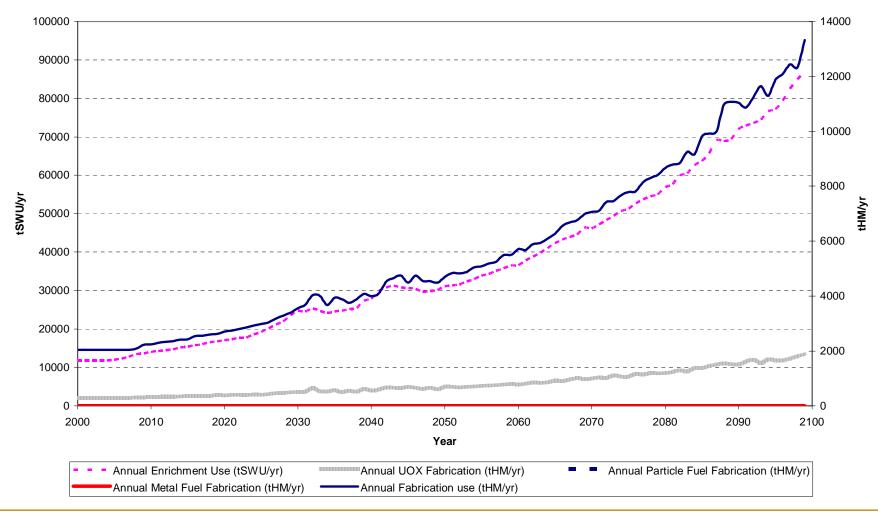
Number of Fuel Cycle Facilities Needed







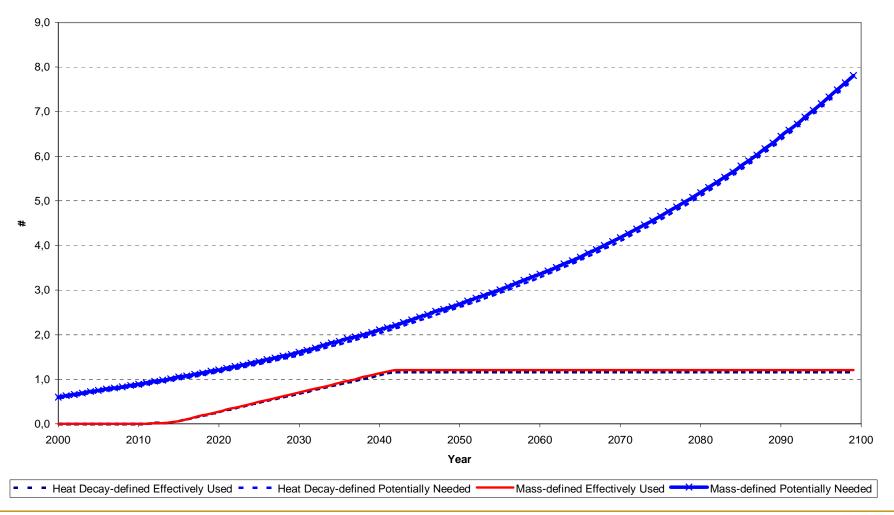
Front-End Fuel Cycle







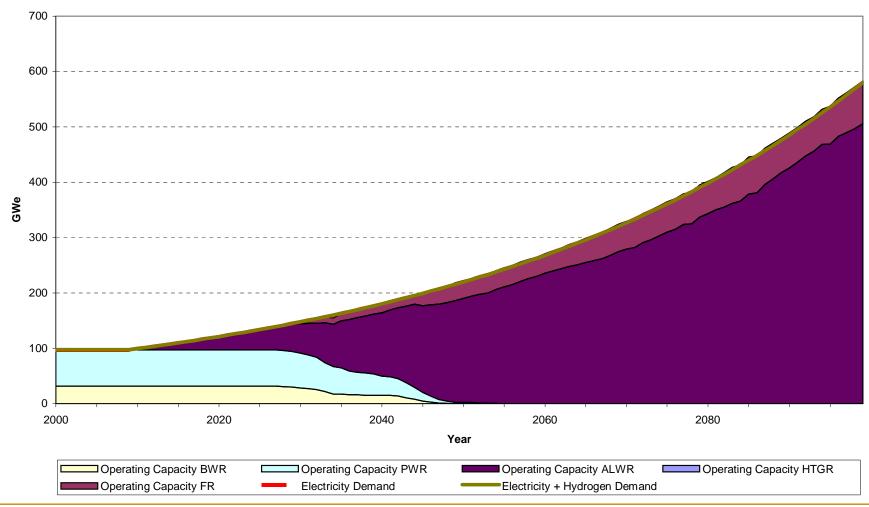
Decay Heat-defined YM Sites versus Mass-defined YM Sites Potentially or Effectively Needed







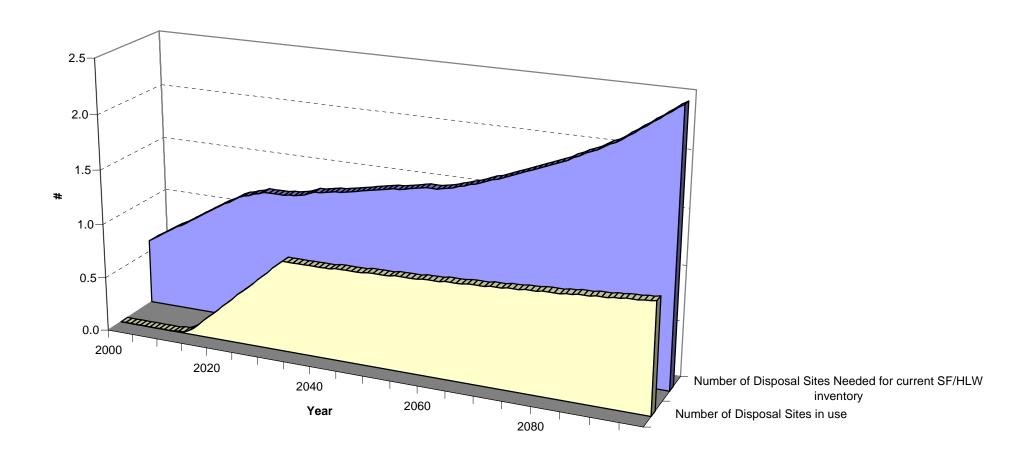
Reactor Capacity versus demanded Energy



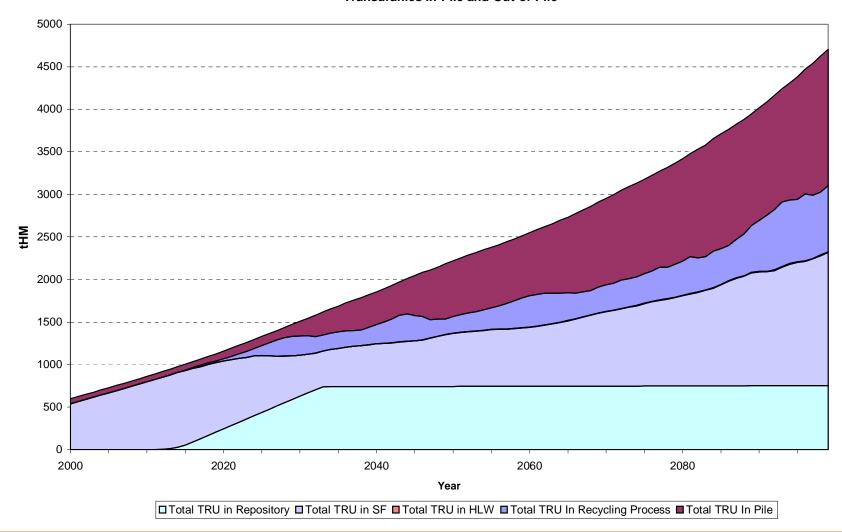




Spent Fuel and High Level Waste arising



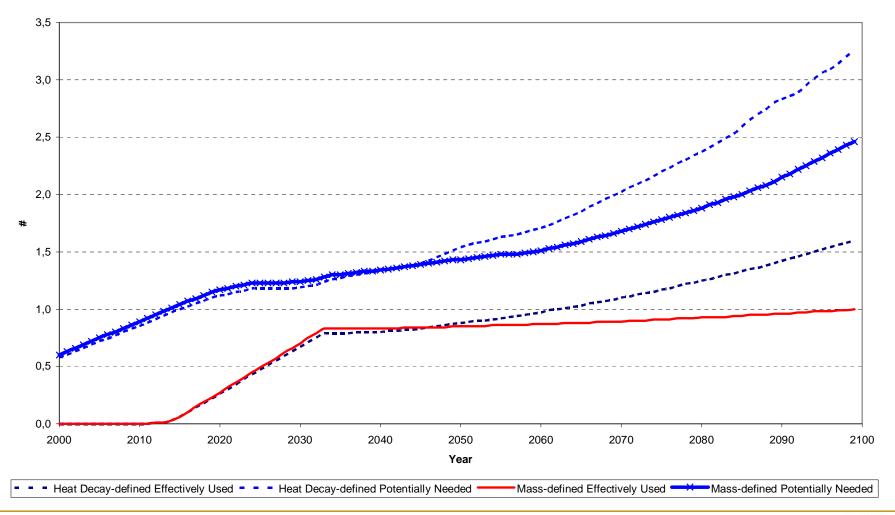
Transuranics In-Pile and Out-of-Pile







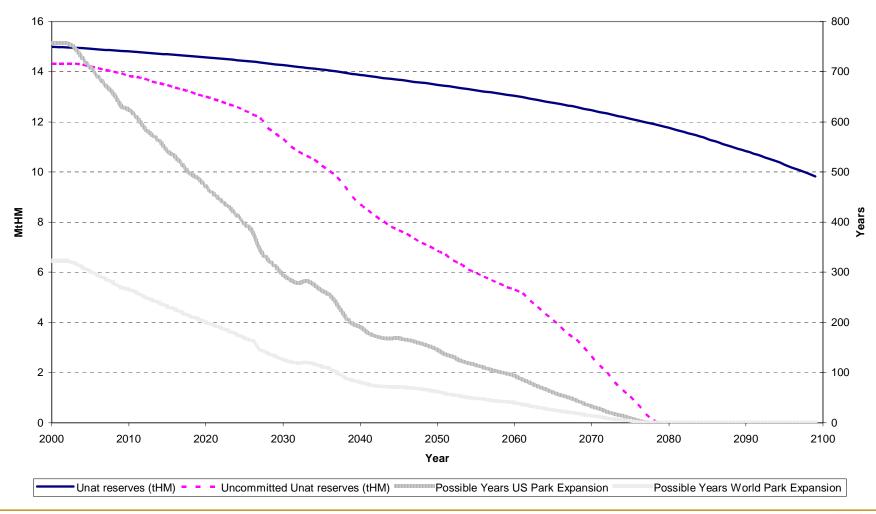
Decay Heat-defined YM Sites versus Mass-defined YM Sites Potentially or Effectively Needed







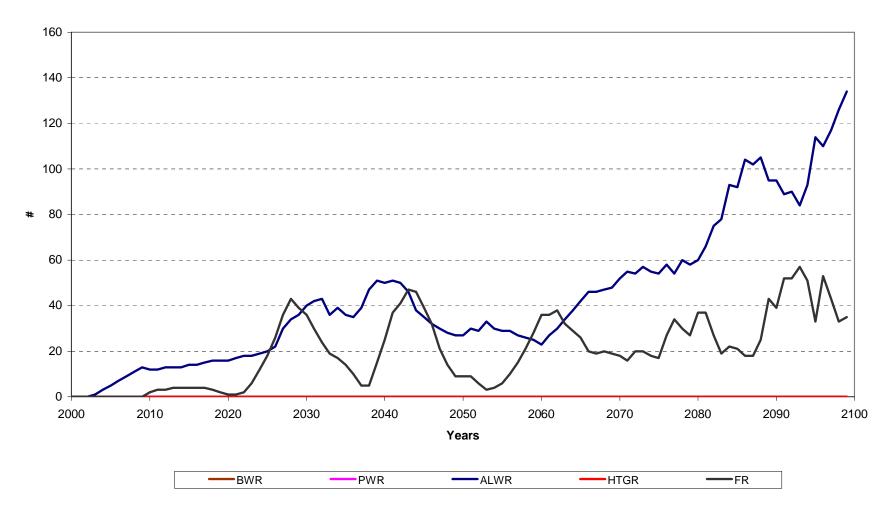
Natural Uranium Resources and Allocation







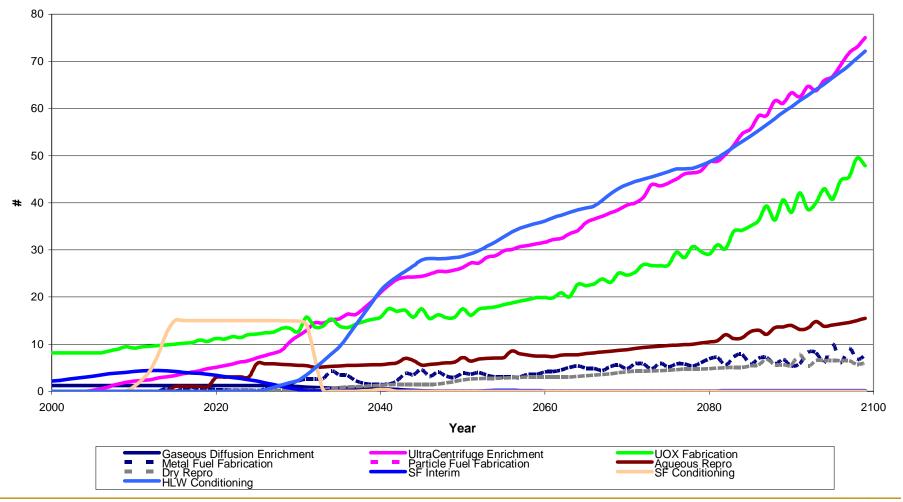
Number of Reactors under Licensing and Construction







Number of Fuel Cycle Facilities Needed







Front-End Fuel Cycle

